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1 [A lock method for KBMSs using abstraction relationships' semantics](#)

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Fernando de Ferreira Rezende, Theo Härder

November 1994 CI KM '94: Proceedings of the third international conference on Information and knowledge management

Publisher: ACM

Full text available: pdf(1.39 MB) [Additional Information: full citation, abstract, references, cited by, index terms](#)

Knowledge Base Management Systems (KBMSs) are a growing research area finding applicability in different domains. As a consequence, the demand for ever-larger knowledge bases (KBs) is growing more and more. Inside this context, knowledge sharing turns ...

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2 [IRIS performer: a high performance multiprocessing toolkit for real-time 3D graphics](#)



John Rohlf, James Helman

July 1994 SIGGRAPH '94: Proceedings of the 21st annual conference on Computer graphics and interactive techniques

Publisher: ACM

Full text available: pdf(633.11 KB) ps(9.32 MB) [Additional Information: full citation, abstract, references, cited by, index terms](#)

This paper describes the design and implementation of IRIS Performer, a toolkit for visual simulation, virtual reality, and other real-time 3D graphics applications. The principal design goal is to allow application developers to more easily obtain maximal ...

3 [Dynamic quorum adjustment for partitioned data](#)



Maurice Herlihy

June 1987 ACM Transactions on Database Systems (TODS). Volume 12 Issue 2

Publisher: ACM

Full text available: pdf(2.12 MB) [Additional Information: full citation, abstract, references, cited by, index terms, review](#)

A partition occurs when functioning sites in a distributed system are unable to communicate. This paper introduces a new method for managing replicated data objects in the presence of partitions. Each operation provided by a replicated object has a set: ...

4 [A locking protocol for resource coordination in distributed databases](#)

Daniel A. Menasce, Gerald J. Popek, Richard R. Muntz

June 1980 ACM Transactions on Database Systems (TODS). Volume 5 Issue 2

Publisher: ACM

Full text available: pdf(2.69 MB) Additional Information: full citation, abstract, references, cited by, index terms

A locking protocol to coordinate access to a distributed database and to maintain system consistency throughout normal and abnormal conditions is presented. The proposed protocol is robust in the face of crashes of any participating site, as well as ...

Keywords: concurrency, consistency, crash recovery, distributed databases, locking protocol

5 [Locking effects in multiprocessor implementations of protocols](#)

Mats Björkman, Per Gunningberg

October 1993 ACM SIGCOMM Computer Communication Review. Volume 23

Issue 4

Publisher: ACM

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references, cited by, index terms, review

We investigate how to exploit shared memory multiprocessors for parallel protocol processing. We present a multiprocessor implementation of the x-kernel protocol environment from the University of Arizona. A "processor-per-message" paradigm is used to ...

6 [A parallel execution model for a database machine with high performances](#)

Didier Donsez, Pascal Faudemay

July 1990 DPDS '90: Proceedings of the second international symposium on Databases in parallel and distributed systems

Publisher: ACM

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we present a mixed MIMD / SIMD execution model for a reconfigurable computer. This model is adapted to the use of a specialized associative coprocessor, embedded in this host machine. A main characteristic of the model is that ...

7 [Distributed programming in Argus](#)

Barbara Liskov

March 1988 Communications of the ACM. Volume 31 Issue 3

Publisher: ACM

Full text available: pdf(1.52 MB) Additional Information: full citation, abstract, references, cited by, index terms, review

Argus—a programming language and system developed to support the implementation and execution of distributed programs—provides mechanisms that help programmers cope with the special problems that arise in distributed programs, such as network ...

8 [An algorithm for concurrency control and recovery in replicated distributed databases](#)



Philip A. Bernstein, Nathan Goodman

December 1984 ACM Transactions on Database Systems (TODS), Volume 9
Issue 4

Publisher: ACM

Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references, cited by, index terms, review

In a one-copy distributed database, each data item is stored at exactly one site. In a replicated database, some data items may be stored at multiple sites. The main motivation is improved reliability: by storing important data at multiple sites, the ...

9 [Locking effects in multiprocessor implementations of protocols](#)



Mats Björkman, Per Gunningberg

October 1993 SI GCOMM '93: Conference proceedings on Communications architectures, protocols and applications

Publisher: ACM

Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references, cited by, index terms, review

We investigate how to exploit shared memory multiprocessors for parallel protocol processing. We present a multiprocessor implementation of the x-kernel protocol environment from the University of Arizona. A "processor-per-message" paradigm is used to ...

10 [A nested transaction mechanism for LOCUS](#)



Erik T. Mueller, Johanna D. Moore, Gerald J. Popek

October 1983 SOSP '83: Proceedings of the ninth ACM symposium on Operating systems principles

Publisher: ACM

Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, cited by, index terms

Atomic transactions are useful in distributed systems as a means of providing reliable operation in the face of hardware failures. Nested transactions are a generalization of traditional transactions in which transactions may be composed of other transactions. ...

11 [PMRSB: parallel multilevel recursive spectral bisection](#)



Stephen T. Barnard

December 1995 Supercomputing '95: Proceedings of the 1995 ACM/ IEEE conference on Supercomputing (CDROM) - Volume 00,
Volume 00

Publisher: ACM

Full text available: pdf(144.29 KB) html(1.89 KB) Additional Information: full citation, abstract, references, cited by, index terms


The design of a parallel implementation of multilevel recursive spectral bisection on the Cray T3D is described. The code is intended to be fast enough to enable dynamic repartitioning of adaptive meshes and to partition meshes that are too large for ...

12 Optimism and consistency in partitioned distributed database systems

Susan B. Davidson

September 1984 ACM Transactions on Database Systems (TODS), Volume 9
Issue 3

Publisher: ACM

Full text available:  pdf(1.88 MB) Additional Information: full citation, abstract, references, cited by, index terms, review


A protocol for transaction processing during partition failures is presented which guarantees mutual consistency between copies of data-items after repair is completed. The protocol is "optimistic" in that transactions are processed without ...

13 A nested transaction mechanism for LOCUS

Erik T. Mueller, Johanna D. Moore, Gerald J. Popek

December 1983 ACM SIGOPS Operating Systems Review, Volume 17 Issue 5

Publisher: ACM

Full text available:  pdf(1.65 MB) Additional Information: full citation, abstract, references, cited by, index terms


Atomic transactions are useful in distributed systems as a means of providing reliable operation in the face of hardware failures. Nested transactions are a generalization of traditional transactions in which transactions may be composed of other transactions. ...

14 Striping in disk array RM2 enabling the tolerance of double disk failures

Chan-Ik Park, Tae-Young Choe

November 1996 Supercomputing '96: Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: IEEE Computer Society

Full text available:  pdf(168.13 KB) Additional Information: full citation, abstract, references, index terms

There is a growing demand in high reliability beyond what current RAID can provide and there are various levels of user demand for data reliability. An efficient data placement scheme called RM2 has been proposed in [cite { Park95}], which makes a disk ...


Keywords: data placement, disk array, performance, reliability, striping

15 The Linux File System Standard

Garrett D'Amore

July 1995 Linux Journal, Volume 1995 Issue 15es


Publisher: Specialized Systems Consultants, Inc.

Full text available:  html(13.56 KB) Additional Information: full citation, index terms16 Recovery in the Calypso file system

Murthy Devarakonda, Bill Kish, Ajay Mohindra

August 1996 ACM Transactions on Computer Systems (TOCS), Volume 14 Issue 3

Publisher: ACM

Full text available:  [pdf\(318.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#),
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This article presents the design and implementation of the recovery scheme in Calypso. Calypso is a cluster-optimized, distributed file system for UNIX clusters. As in Sprite and AFS, Calypso servers are stateful and scale well to a large number of clients. ...

Keywords: Calypso, cluster systems, distributed state, state reconstruction


17 [Distributed and parallel database systems](#)



M. Tamer Özsu, Patrick Valduriez

March 1996 ACM Computing Surveys (CSUR). Volume 28 Issue 1

Publisher: ACM

Full text available:  [pdf\(145.53 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#),
[index terms](#)


18 [Area efficient pipelined pseudo-exhaustive testing with retiming](#)



Huoy-Yu Liou, Ting-Ting Y. Lin

June 1996 DAC '96: Proceedings of the 33rd annual conference on Design automation

Publisher: ACM

Full text available:  [pdf\(118.66 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#),
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19 [A probability-based approach to VLSI circuit partitioning](#)



Shantanu Dutt, Wenyong Deng

June 1996 DAC '96: Proceedings of the 33rd annual conference on Design automation

Publisher: ACM

Full text available:  [pdf\(197.84 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#),
[index terms](#)


20 [Parallelizing OODBMS traversals: a performance evaluation](#)

David J. De Witt, Jeffrey F. Naughton, John C. Shafer, Shivakumar Venkataraman

January 1996 The VLDB Journal — The International Journal on Very Large

Data Bases. Volume 5 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(151.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#),
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In this paper we describe the design and implementation of *ParSets*, a means of exploiting parallelism in the SHORE OODBMS. We used *ParSets* to parallelize the graph traversal portion of the OO7 OODBMS benchmark, and present speedup and scaleup ...

Keywords: *ParSets* - Parallelism - SHORE - Object-oriented database management systems

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